

COMMUNICATION SYSTEMS FOR USE WITH MAGNETIC RESONANCE IMAGING SYSTEMS

Abstract, of Disclosure

An antenna coupling enables communication across a barrier to radio frequencies. The antenna coupling comprises first and second antennas. The first antenna is adapted for positioning on a first side of the barrier, and is capable of receiving from and transmitting to a first transceiver disposed on the first side. The second antenna is adapted for positioning on a second side of the barrier, and is capable of receiving from and transmitting to a second transceiver on the second side. The interconnection of the first and second antennas through the barrier comprises the antenna coupling. The antenna coupling enables the first and second transceivers to communicate across the barrier over the desired range(s) of radio frequencies. In a related aspect, the antenna coupling may also include a filter interconnected between the first and second antennas to prevent radio frequencies outside of the desired range(s) from being transmitted across the barrier.